

# CRANIOFACIAL INDICES AS A TOOL IN EVALUATION DYSMORPHOLOGICAL FEATURES IN PARENTS WITH CLEFT CHILDREN

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There are many genetic diseases associated with abnormal craniofacial morphology. Comparison of craniofacial indices in family members of patients with clefts and healthy individuals can be used to evaluate dysmorphological features of the head and face.

## Objective

To ascertain whether craniofacial indices could be used in evaluation dysmorphological features of the head and face.

## Materials and methods

The subjects of our study were parents of children with a clefts, and clinically healthy individuals. Eight measurements were used in calculation of the indices.

## Results

Five craniofacial indices were calculated separately for males and females. Results are presented in the table 1 (for males) and table 2 (for females).

Table 1

| Index                | Clefts (N = 57) |      | Control (N = 39) |      | MD    | p      |
|----------------------|-----------------|------|------------------|------|-------|--------|
|                      | Mean            | SD   | Mean             | SD   |       |        |
| Cephalic index       | 0,82            | 0,04 | 0,80             | 0,06 | 0,02  | 0,090  |
| Facial index         | 0,85            | 0,06 | 0,94             | 0,10 | -0,09 | 0,001* |
| Intercanthal index   | 0,33            | 0,03 | 0,27             | 0,03 | 0,06  | 0,001* |
| Upper face index (R) | 0,94            | 0,12 | 0,95             | 0,03 | -0,01 | 0,577  |
| Upper face index (L) | 0,96            | 0,03 | 0,96             | 0,03 | 0,00  | 0,954  |

Table 2

| Index                | Clefts N = 67) |      | Control (N = 38) |      | MD    | p      |
|----------------------|----------------|------|------------------|------|-------|--------|
|                      | Mean           | SD   | Mean             | SD   |       |        |
| Cephalic index       | 0,82           | 0,04 | 0,80             | 0,04 | 0,02  | 0,010* |
| Facial index         | 0,82           | 0,05 | 0,97             | 0,08 | -0,14 | 0,001* |
| Intercanthal index   | 0,34           | 0,03 | 0,26             | 0,02 | 0,08  | 0,001* |
| Upper face index (R) | 0,97           | 0,03 | 0,97             | 0,03 | 0,00  | 0,890  |
| Upper face index (L) | 0,97           | 0,03 | 0,98             | 0,03 | 0,00  | 0,405  |

\* Statistically significant (p<0,05)

## Conclusions

Basic craniofacial indices show differences between 2 study groups and therefore could be useful in evaluation craniofacial dysmorphology.